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(71) Applicant (for all designated States except US): FOUN-TAIN TECHNOLOGIES B.V. [NL/NL]; Rivium Quadrant 90, NL-2909 LC Capelle aan den IJssel (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LANGERAK, Alfred [NL/NL]; Molenweg 13, NL-3271 AM Mijnsheerenland (NL). (74) Agent: WINCKELS, J., H., F.; Vereenigde, Johan de Wittlaan 7, NL-2517 JR Den Haag (NL).

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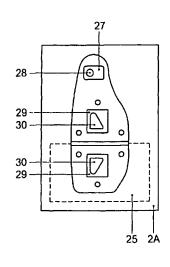
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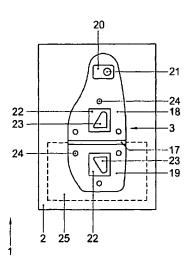
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- with international search report

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(54) Title: MOLD AND METHOD FOR FORMING PACKAGES AND PACKAGES MANUFACTURED THEREWITH





(57) Abstract: A mold (2) for manufacturing a package for products, comprising at least one mold cavity (3) for forming the package, wherein in the mold cavity hinge forming means (17) are provided for forming hinge means, while on a first side (18) of the hinge forming means (17) at least a first insert piece (20, 21) is provided for forming suspension means for the package and, on the opposite side (19), at least a second insert piece (22, 23) is provided for forming a receiving cavity in the package, the first and second insert piece being exchangeable for different first and or/second insert pieces with a configuration deviating from the first and second insert pieces, respectively.

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
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A. CLASS	IFICATION OF SUBJECT MATTER B29C33/30 B29C45/26 B65D73/	700 B29C45/00		
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC		
	SEARCHED			
Minimum de IPC 7	ocumentation searched (classification system followed by classificat B29C B65D	ion symbols)		
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields se	arched	
Electronic d	ata base consulted during the international search (name of data ba	use and, where practical, search terms used,		
EPO-In	ternal, WPI Data, PAJ			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with Indication, where appropriate, of the rel	levant passages	Relevant to claim No.	
Υ	GB 2 242 387 A (BAFBOX LIMITED) 2 October 1991 (1991-10-02)		1-3,9	
A	the whole document		14	
Y	US 5 918 741 A (VASUDEVA KAILASH 6 July 1999 (1999-07-06) column 2, line 59 - column 3, li figures		1-3,9,10	
Υ	US 2 687 157 A (COWAN CLIFTON J) 24 August 1954 (1954-08-24) column 3 - column 4; figures		10	
Υ	WO 96/38638 A (BENCKISER CONSUME IN) 5 December 1996 (1996-12-05) claims 1,2,14; figures	1-3,8,9		
		- /		
X Furth	ner documents are listed in the continuation of box C.	X Patent family members are listed in	n annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means." "P" document published prior to the international filing date but		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to Involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the a	actual completion of the international search	Date of mailing of the international sear	rch report	
1:	1 March 2005	2 3. 03.	2005	
lame and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer		
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Mathey, X		

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C.(Continu		PC1/NL2004/000258				
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.				
Y	PATENT ABSTRACTS OF JAPAN vol. 013, no. 154 (N-814), 14 April 1989 (1989-04-14) & JP 63 315210 A (HITACHI LTD), 22 December 1988 (1988-12-22) abstract; figures	1-3,8,9, 14				
(DE 69 18 609 U (FIRMA BLAUHAMMER ABPACK-GESELLSCHAFT E. O. HAAS)	12,13				
,	18 September 1969 (1969-09-18) page 3; claim 10; figure 6	14,15				
•	EP 0 615 827 A (ROUXEL SA) 21 September 1994 (1994-09-21) claim 1; figures	15				
	DATABASE WPI Section Ch, Week 199949 1 December 1999 (1999-12-01), Derwent Publications Ltd., London, GB; Class A32, AN 1999-580899 [49] XP002263292 8 ZA 9 810 579 A (VAN LEER SOUTH AFRICA PTY LTD) 31 August 1999 (1999-08-31) abstract	1-5,14				

International application No. PCT/NL2004/000258

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
Box II Observations where certain claims were round unsearchable (Continuation of Item 2 of Itrst sneet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 1-10,12-15
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10

 \mbox{Mold} with exchangeable insert pieces and process for manufacturing a package

2. claims: 11,14,15

Package with closing parts connected by hinge means and being curved so as to enable the package to stand freely while in a closed state.

3. claims: 12-15

Package comprising a sub-package detachably connected by breaking lips.

Information on patent family members

International Application No PCT/NL2004/000258

					101/1122004/000230	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
GB 2242387	А	02-10-1991	AU CA EP WO	7577691 A 2079441 A1 0522020 A1 9115353 A2	30-10-1991 01-10-1991 13-01-1993 17-10-1991	
US 5918741	A	06-07-1999	CA DE	2226798 A1 19801157 A1	14-07-1998 16-07-1998	
US 2687157	Α	24-08-1954	NONE			
WO 9638638	A	05-12-1996	CA WO	2166944 A1 9638638 A1	01-12-1996 05-12-1996	
JP 63315210	Α	22-12-1988	NONE			
DE 6918609	U	18-09-1969	NONE			
EP 0615827	A	21-09-1994	FR EP	2702703 A1 0615827 A1	23-09-1994 21-09-1994	
ZA 9810579	Α	25-05-1999	NONE			
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